

# Abstract

[Problem the Present Invention Intends to Solve] The object of the present invention is to resolve the problem by providing a process of modifying a layout of worksheet's cells having formulas and display attributes to/from a display format based on given display layout defining data, and by printing a journal in the modified (display) format, while maintaining the original formulas and display attributes.

[Means to Resolve the Problem] CPU 2 is a central computation system for controlling each of the components in computer system 1, and reads out its system program stored in memory device 10 and develops the program into a storage region of worksheet calculation processing unit 4, layout conversion processing unit 6, and a storing region of layout setting unit 11.

When one selects a data file using input apparatus 3, the data file is read from memory device 10 and is stored in worksheet calculation data unit 5. display layout defining data (defining file) written in the data file [are thus read] from memory device 10 and stored in layout defining data unit 7. At the same time, data cells in worksheet calculation data unit 5 are laid out via layout conversion processing unit 6, and are displayed on display apparatus 8, or printed through printer 9. The cell addresses of new display data entered [into a display table] by operating input apparatus 3 are converted to worksheet calculation data cell addresses. The converted data are stored in worksheet calculation data unit 5 via worksheet calculation processing unit 4. Through the above subroutine, the data entered in a data table having multiple cells are stored in a worksheet calculation cell address by the cell address conversion subroutine in layout conversion processing unit 6. The relationship between calculation cell addresses expressed by mathematical formulas is always consistent, and a worksheet data table is thus modified into a display table for input and output by simply changing the display layout defining data or defining file.

[Selected Figure] Fig. 1